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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,111	03/24/2004	Yin-Hung Chen	OP-093000203	2514
7	590 03/08/2006		EXAMINER	
Yi-Wen Tseng 4331 Stevens Battle Lane			EDWARDS, ANTHONY Q	
Fairfax, VA 2			ART UNIT	PAPER NUMBER
			2835	
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DATE MAILED: 03/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summany	10/807,111	CHEN, YIN-HUNG
Office Action Summary	Examiner	Art Unit
	Anthony Q. Edwards	2835
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period verailure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>25 N</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims	•	
4) Claim(s) 1 and 7-10 is/are pending in the appli 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 7-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 24 March 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	wn from consideration. or election requirement. er. a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to the drawing(s	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati nity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,6356,435 to Davis et al. in view of U.S. Patent No. 6,700,777 to Chen. Referring to claim 1, Davis discloses an internal arrangement of a small form factor computer (see Fig. 1), which clears a heat dissipation channel between a second access unit (i.e., box below 14) and a motherboard (16) by changing an allocation of a first access unit (not numbered, but shown two components above 15), comprising a case (10) including a bottom portion (not numbered) with the motherboard (16) mounted thereon and a front (not numbered) and a rear panel (22) adjacent to two opposing sides of the bottom portion to form a receiving space therebetween (see Fig. 1), and a plurality of stacked computer components in an array (see col. 2, lines 42-45) as the first access unit installed in an upper portion of the receiving space close to the rear panel (22) instead of stacking with the second access unit (i.e., box below 14), thereby allowing air entering inside the case to flow and deliver heat from the front to the back of the case. See the arrows shown in Fig. 1.

Davis does not specifically teach the stacked computer components being hard drives.

Chen teaches providing hard disk drives in a stacked arrangement (see Figs. 1 and 2, as well as col. 1, lines 14-17), within a box (10) for placement in a computer enclosure (50). It would have

been obvious to one having ordinary skill in the art at the time of the invention to modify the internal arrangement of Davis to include a plurality of stacked hard drives in a disk array, as taught by Chen, since the device of Chen would allow for quick and easy replacement of hard drives for the arrangement of Davis.

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Referring to claim 7, Davis in view of Chen disclose an arrangement, further comprising a pair of support member (6) extending between the front and the rear panel, wherein the support members (66) for a space for receiving the first access unit (10) therein. See Figs. 1 and 2 of Chen.

Referring to claim 8, Davis in view of Chen disclose an arrangement, wherein the first access unit includes a box member (10) hard disk disposed in the box member. See Figs. 1 and 2, as well as col. 1, lines 14-15 of Chen.

Referring to claim 9, Davis in view of Chen disclose an arrangement, wherein the box member (10) includes a plurality of connection members (20) formed along a periphery thereof to be fitted with the support members. See Figs. 1 and 2 of Chen.

Referring to claim 10, Davis in view of Chen disclose an arrangement, wherein the box member (10) inherently includes a terminal at one end thereof, since a terminal member must be provided at the box for electrical communication.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. As indicated above, Davis in view of Chen teach a plurality of hard drives in a disk array.

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The remainder of applicant's arguments filed November 25, 2005 have been fully considered but they are not persuasive. Specifically, with respect the applicant's recitation of "a small form factor computer," this limitation has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See In re Hirao, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). Even if this limitation were provided in the body of the claim, applicant's definition of a "small form factor computer" is met by the Davis reference, since Davis shows the motherboard on the bottom portion of the case (10). Applicant's suggestion on page 5 of the Remarks that Davis teaches a motherboard "located under the cooling assembly" is unfounded, since the number line 16 (shown in Fig. 1) is apparently pointing to the wrong element. As shown in Fig. 2, that element is a ledge located below a fan 32. Examiner contents that the motherboard of Davis is located or mounted on the bottom of the case.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Q. Edwards whose telephone number is 571-272-2042. The examiner can normally be reached on M-F (7:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 4, 2006 age

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